Attorney Docket No.: VRT0097US

WHAT IS CLAIMED IS:

I	1. A method comprising:
2	determining that a change occurred to data in a first region of a first plurality of regions of a
3	first volume without including the first region in a set of regions designated for
4	replication to a second volume.
1	2. The method of claim 1 wherein
2	the change occurred to the data in the first region as a result of restoring at least one region of
3	the first plurality of regions from a second set of regions of a third volume.
,	the first pluranty of regions from a second set of regions of a finite volume.
1	3. The method of claim 2 wherein
2	the third volume is a snapshot of the first volume at one point in time.
1	4. The method of claim 1 wherein
2	a second region of the first plurality of regions is included in the set of regions designated for
3	replication when
4	a respective change to the second region is added to a log comprising at least one
5	change to at least one region, wherein
6	each region of the at least one region in the log is designated for replication to
7	the second volume.
1	5. The method of claim 4 wherein
2	a third region of the first plurality of regions is included in the set of regions designated for
3	replication when
4	a second respective change occurs to the third region, and
5	the second respective change to the third region cannot be added to the log.
l	6. The method of claim 1 further comprising:
2	adding the first region to the set of regions designated for replication.
i	7. The method of claim 6 further comprising:
2	replicating each region in the set of regions designated for replication from the first volume to
3	the second volume.
l	8. The method of claim 7 wherein

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2 3	the replicating each region does not comprise replicating all regions from the first volume to the second volume.
1	9. The method of claim 7 wherein
2	the replicating continues during the restoring.
1	10. The method of claim 7 wherein
2	the data are accessible during the replicating.
1	11. The method of claim 7 wherein
2	the data are accessible during the restoring.
1	12. The method of claim 7 wherein
2	the determining that the change occurred comprises
3	determining that the first region is one of a set of pending regions in a log, wherein
4	the log comprises at least one change to at least one region,
5	each region of the at least one region in the log is included in the set of regions
6	designated for replication, and
7	the replicating has not replicated the set of pending regions.
1	13. The method of claim 1 wherein
2	a second region of the first plurality of regions is included in the set of regions designated for
3	replication when
4	a second respective change occurs to the second region, and
5	the second respective change cannot be added to a log of changes to at least one
6	region, wherein
7	each region of the at least one region in the log is included in the set of regions
8	designated for replication.
1	14. A system comprising:
2	determining means for determining that a change occurred to data in a first region of a first
3	plurality of regions of a first volume without including the first region in a set of
4	regions designated for replication to a second volume; and
5	adding means for adding the region to the set of regions designated for replication.
1	15. The system of claim 14 further comprising:

_	replicating means for replicating each region in the set of regions designated for replication
3	from the first volume to the second volume.
1	16. The system of claim 15 wherein
2	the replicating means do not replicate all regions from the first volume to the second volume.
1	17. A system comprising:
2	a determining module to determine that a change occurred to data in a first region of a first
3	plurality of regions of a first volume without including the first region in a set of
4	regions designated for replication to a second volume.
1	18. The system of claim 17 further comprising:
2	an adding module to add the region to the set of regions designated for replication.
1	19. The system of claim 17 further comprising:
2	a replicating module to replicate each region in the set of regions designated for replication
3	from the first volume to the second volume.
1	20. The system of claim 17 wherein
2	the replicating module does not replicate all regions from the first volume to the second
3	volume.
1	21. A computer-readable medium comprising:
2	determining instructions to determine that a change occurred to data in a first region of a first
3	plurality of regions of a first volume without including the first region in a set of
4	regions designated for replication to a second volume.
1	The computer-readable medium of claim 21 further comprising:
2	adding instructions to add the region to the set of regions designated for replication.
1	23. The computer-readable medium of claim 21 further comprising:
2	replicating instructions to replicate each region in the set of regions designated for replication
3	from the first volume to the second volume.
1	24. The computer-readable medium of claim 21 wherein
2	the replicating instructions do not replicate all regions from the first volume to the second
3	volume.